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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,659	04/04/2006	Giovanni Ferraro	R.306280	7902
2119 RONALD E. G	7590 07/08/200 REIGG	EXAMINER		
	EIGG P.L.L.C.	FOX, JOHN C		
	POWHATAN STREET, UNIT ONE ANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			3753	
			MAIL DATE	DELIVERY MODE
			07/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/574,659	FERRARO ET AL.			
Office Action Summary	Examiner	Art Unit			
	John Fox	3753			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>04 A</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 9-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 9-28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or	vn from consideration. r election requirement. r. epted or b) objected to by the E				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/4/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

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This Action is responsive to the communication filed April 4, 2007.

The claims are objected to for the out of order dependent claims. With word processors, there is no reason for presenting claims so needlessly difficult to diagram and examine. Correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 9-12, 16-18, 20-22, and 24-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Cerny.

Cerny shows a fuel injector with a plurality of inlet bores 120 leading to actuator chamber 116, a cap 70, conical seat 72, and enlargement 46. The valve of Cerny is read as relating to high pressure in that such recitation is relative. The bores 120 are read as smaller than a hypothetical valve with one bore.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 20-22 are, in the alternative, rejected under 35 U.S.C. 103(a) as being unpatentable over Cerny.

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The provision of a single hypothetical bore of greater size than the bores 120 is considered an obvious matter of design choice in that it is readily apparent that a single bore would have to be larger to maintain the desired minimum flow.

Claims 13-15, 19, 23, and 27 rejected under 35 U.S.C. 103(a) as being unpatentable over Cerny in view of Yoshida et al.

Cerny shows the claimed valve except for a central inlet. Yoshida et al shows a fuel injector with a central inlet 33. It would have been obvious for one of ordinary skill in the art at the time the invention was made to have used such a central inlet in the valve of Cerny in place of lateral inlet 60 under the rationale set forth in *KSR v. Teleflex*, 550 U.S. ____, 127 S. Ct. 1727, 82 U.S.P.Q.2d 1385 (2007) that the simple substitution of one known element for another to obtain predictable results is obvious.

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cerny in view of Figure 1 of the application.

Cerny teaches the claimed device except for a piezoelectric actuator. Figure 1 is disclosed as including a piezoelectric actuator. It would have been obvious for one of ordinary skill in the art at the time the invention was made to have used such a piezoelectric actuator in place of the solenoid of Cerny under the rationale set forth in KSR v. Teleflex, 550 U.S. ____, 127 S. Ct. 1727, 82 U.S.P.Q.2d 1385 (2007) that the simple substitution of one known element for another to obtain predictable results is obvious.

In view of the unduly confusing dependent claims the following rejection is also made.

Claims 9-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cerny in view of Yoshida et al.

Yoshida et al is applied as above. Any features not specifically mentioned are considered to be obvious over the references.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Fox whose telephone number is 571-272-4912.

The examiner can normally be reached on Monday-Saturday from 10am-6pm (Hoteling Program).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Huson can be reached on 571-272-4887. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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